

21

specific design and implementation of the communication subsystem **1424** can depend on the communication network (s) over which the computing device **1400** is intended to operate. For example, the computing device **1400** can include communication subsystems **1424** designed to operate over a GSM network, a GPRS network, an EDGE network, a Wi-Fi or WiMax network, and a Bluetooth™ network. In particular, the wireless communication subsystems **1424** can include hosting protocols such that the device **100** can be configured as a base station for other wireless devices.

An audio subsystem **1426** can be coupled to a speaker **1428** and a microphone **1430** to facilitate voice-enabled functions, such as speaker recognition, voice replication, digital recording, and telephony functions. The audio subsystem **1426** can be configured to facilitate processing voice commands, voiceprinting and voice authentication, for example.

The I/O subsystem **1440** can include a touch-surface controller **1442** and/or other input controller(s) **1444**. The touch-surface controller **1442** can be coupled to a touch surface **1446**. The touch surface **1446** and touch-surface controller **1442** can, for example, detect contact and movement or break thereof using any of a plurality of touch sensitivity technologies, including but not limited to capacitive, resistive, infrared, and surface acoustic wave technologies, as well as other proximity sensor arrays or other elements for determining one or more points of contact with the touch surface **1446**.

The other input controller(s) **1444** can be coupled to other input/control devices **1448**, such as one or more buttons, rocker switches, thumb-wheel, infrared port, USB port, and/or a pointer device such as a stylus. The one or more buttons (not shown) can include an up/down button for volume control of the speaker **1428** and/or the microphone **1430**.

In one implementation, a pressing of the button for a first duration can disengage a lock of the touch surface **1446**; and a pressing of the button for a second duration that is longer than the first duration can turn power to the computing device **1400** on or off. Pressing the button for a third duration can activate a voice control, or voice command, module that enables the user to speak commands into the microphone **1430** to cause the device to execute the spoken command. The user can customize a functionality of one or more of the buttons. The touch surface **1446** can, for example, also be used to implement virtual or soft buttons and/or a keyboard.

In some implementations, the computing device **1400** can present recorded audio and/or video files, such as MP3, AAC, and MPEG files. In some implementations, the computing device **1400** can include the functionality of an MP3 player, such as an iPod™. The computing device **1400** can, therefore, include a 36-pin connector that is compatible with the iPod. Other input/output and control devices can also be used.

The memory interface **1402** can be coupled to memory **1450**. The memory **1450** can include high-speed random access memory and/or non-volatile memory, such as one or more magnetic disk storage devices, one or more optical storage devices, and/or flash memory (e.g., NAND, NOR). The memory **1450** can store an operating system **1452**, such as Darwin, RTXC, LINUX, UNIX, OS X, WINDOWS, or an embedded operating system such as VxWorks.

The operating system **1452** can include instructions for handling basic system services and for performing hardware dependent tasks. In some implementations, the operating system **1452** can be a kernel (e.g., UNIX kernel). In some

22

implementations, the operating system **1452** can include instructions for performing voice authentication. For example, operating system **1452** can implement the synthetic group selfie features as described with reference to FIGS. 1-13.

The memory **1450** can also store communication instructions **1454** to facilitate communicating with one or more additional devices, one or more computers and/or one or more servers. The memory **1450** can include graphical user interface instructions **1456** to facilitate graphic user interface processing; sensor processing instructions **1458** to facilitate sensor-related processing and functions; phone instructions **1460** to facilitate phone-related processes and functions; electronic messaging instructions **1462** to facilitate electronic-messaging related processes and functions; web browsing instructions **1464** to facilitate web browsing-related processes and functions; media processing instructions **1466** to facilitate media processing-related processes and functions; GNSS/Navigation instructions **1468** to facilitate GNSS and navigation-related processes and instructions; and/or camera instructions **1470** to facilitate camera-related processes and functions.

The memory **1450** can store other software instructions **1472** to facilitate other processes and functions, such as the synthetic group selfie processes and functions as described with reference to FIGS. 1-13.

The memory **1450** can also store other software instructions **1474**, such as web video instructions to facilitate web video-related processes and functions; and/or web shopping instructions to facilitate web shopping-related processes and functions. In some implementations, the media processing instructions **1466** are divided into audio processing instructions and video processing instructions to facilitate audio processing-related processes and functions and video processing-related processes and functions, respectively.

Each of the above identified instructions and applications can correspond to a set of instructions for performing one or more functions described above. These instructions need not be implemented as separate software programs, procedures, or modules. The memory **1450** can include additional instructions or fewer instructions. Furthermore, various functions of the computing device **1400** can be implemented in hardware and/or in software, including in one or more signal processing and/or application specific integrated circuits.

What is claimed is:

1. A method comprising:

receiving, by an originator computing device including a forward facing image capture device, input selecting a group self-image capture mode of the originator computing device;

in response to receiving the input, determining, by the originator computing device, one or more contributor computing devices proximate to the originator computing device;

sending, by the originator computing device, an invitation to the one or more contributor computing devices, the invitation inviting the one or more contributor computing devices to participate in a group self-image;

capturing, by the originator computing device, an originator image media item;

receiving, by the originator computing device, at least one contributor image media item from at least one of the contributor computing devices;